

Chapter 5, Solution 1.



	A, mm^2	\bar{x}, mm	\bar{y}, mm	$\Sigma \bar{x}A, \text{mm}^3$	$\Sigma \bar{y}A, \text{mm}^3$
1	$200 \times 150 = 30\,000$	-100	250	-30\,000\,000	6\,750\,000
2	$400 \times 300 = 120\,000$	200	150	24\,000\,000	18\,000\,000
Σ	150\,000			21\,000\,000	24\,750\,000

$$\text{Then } \bar{X} = \frac{\Sigma \bar{x}A}{\Sigma A} = \frac{21\,000\,000}{150\,000} \text{ mm}$$

$$\text{or } \bar{X} = 140.0 \text{ mm} \quad \blacktriangleleft$$

$$\bar{Y} = \frac{\Sigma \bar{y}A}{\Sigma A} = \frac{24\,750\,000}{150\,000} \text{ mm}$$

$$\text{or } \bar{Y} = 165.0 \text{ mm} \quad \blacktriangleleft$$

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**Charles K. Alexander, Matthew N. O.
Sadiku**



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